User Guide – HT700T Series

v10/10

Professional submersible MPT1327 handheld transceivers

Common Information
(all models)

HT712T/722T/782T(U)
Entry

HT715T/725T/785T(U)
Advanced MPT1327, 8-key

HT716T/726T/786T(U)
Advanced MPT1327, Full Keypad

Introduction

Common

This guide covers the 'basics' of your radio's operation. To meet your exact requirements the radio may have been customised by your Entel authorised dealer. These features will be explained in a separate guide issued by the dealer.

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Declaration of Conformity

We Entel UK Limited of:

320 Centennial Avenue
Centennial Park
Elstree
Borehamwood
Hertfordshire
WD6 3TJ
United Kingdom

Declares under our sole responsibility that the product range:

HT700 MPT Series Handheld Radio Transceiver

Conforms to the following standards or other nominative documents:

- EN 300 086-2 V1.2.1, EN 301 489-1 V1.8.1:2008, EN 301 489-5 V1.3.1:2002, EN 60950-1:2006, in accordance with Directive 99/5/EC.

Serial Number_____

M Austin

Quality Manager

Date: 1 October 2010

CE

ISO 9001
REGISTERED FIRM

Radio care

Warranty

The HT7XXT comes with a 24 month warranty, for details see our full terms & conditions.

Advice

- Do not use options or accessories not specified by Entel
- Ensure that the radio is used within the parameters for which it was designed
- Please switch the transceiver off before connecting optional accessories

Warning

Turn the transceiver off in the following locations:

- In explosive atmospheres (flammable gas, dust including metallic & grain powders etc)
- Whilst taking on fuel or while parked near fuel station
- Near explosives or blasting sites
- In aircraft, medical institutions or near persons known to be wearing a pacemaker

Caution

- Do not disassemble or modify the transceiver for any reason
- Do not transmit while touching the antenna terminal or any exposed metallic parts of the aerial as this may result in a burn
- Please check and observe regulations in your country with regards to use whilst driving

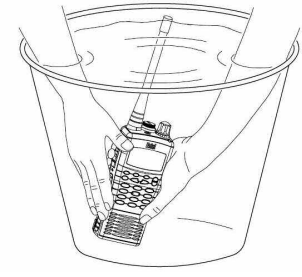
End of Life Disposal

- When your Entel transceiver reaches the end of its useful life, please ensure that the unit is disposed of in an environmentally friendly way. For country specific information please see: www.entel.co.uk/recycling

Cleaning your Radio

After exposure to any potentially corrosive substance including salt water it is recommended to thoroughly wash the transceiver in fresh water. If washing with the battery removed from the radio, ensure that the battery is not immersed in water & clean only with a damp cloth.

Note: Do not wash the transceiver if you suspect the waterproofing seal may be damaged. Please return to your supplier for inspection / repair.



Battery care

Introduction

Your Entel radio is supplied with a high performance Lithium Ion (Li-Ion) battery. These batteries:

- Extend talk time
- Reduce the battery's size and weight
- Do not suffer from 'memory effect' that reduces the life of Ni-Cad and NiMH batteries
- Have a low toxicity, therefore reducing the impact on the environment

Battery Pack Precautions

- Switch the transceiver OFF before charging
- Charge the battery pack before use
- Do not recharge the battery pack if it is already fully charged. This could lead to a premature battery replacement warning message (See Battery Communications on page 4)
- Charge the battery in accordance with the instructions enclosed with your charger
- Do not charge the transceiver and/or battery pack if they are wet

The battery pack includes potentially hazardous components. Please:

- Do not disassemble or reconstruct battery
- Do not short-circuit the battery
- Do not incinerate or apply heat to the battery
- Do not immerse the battery unless attached securly to the radio in water or get it wet by other means

Battery care / information

- Do not charge the battery near fires or under direct sunlight
- Use only the specified charger and observe charging requirements
- Do not pierce the battery with any object or strike it with an instrument
- Do not use the battery pack if it is damaged in any way
- Do not reverse-charge or reverse-connect the battery
- Do not touch a ruptured or leaking battery

If liquids from the battery get into your eyes, immediately:

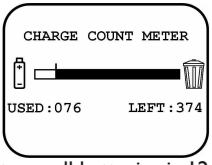
Wash your eyes out with fresh water avoiding rubbing them. Seek medical treatment

Battery Pack

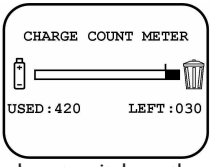
- If a battery is not to be used for an extended period of time (e.g. several months) remove the battery pack from the equipment and store in a cool and dry location (around 0°C) part charged. Do not fully discharge the battery before storage.
- Each charge cycle reduces the battery's life. Minimise the number of times you charge your battery especially in hotter environments which further shortens a battery's life.

Battery Communications

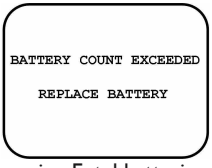
Each battery used with your radio has a microprocessor fitted, which logs the number of times your battery has been charged.
On a radio with an LCD display, the number of times the battery has been charged, together with the remaining charge cycles available, will be shown during switch on. On the advanced 8-key and 20-key models, battery charge cycle information may also be accessed via the menu. (If not de-activated by your dealer)



The warranty on all batteries is 12 months or 450 charge cycles, whichever is the sooner. After 420 cycles, at switch on the radio will emit a series of short tones, and on LCD models a waste bin icon will flash to alert you to the need to buy a new battery.



After 450 cycles, at switch on the radio will emit a series of long beeps, and LCD models the message will change to BATTERY COUNT EXCEEDED REPLACE BATTERY. The radio will continue to operate but its operational time may be reduced, eventually failing all together.



Note: only genuine Entel batteries should be used. Only genuine batteries offer the battery charge count feature informing you when the battery is reaching the end of its useful life. Customer satisfaction is assured as you can not be supplied with sub standard, potentially dangerous battery packs from 3rd party manufacturers, ensuring it delivers the expected capacity and endurance.

On HT series batteries a breathable membrane is used. This is clearly marked on the battery label. Piercing the membrane will allow water ingress to the battery, and will invalidate the warranty.

Packing List

- HT7XX Radio
- CNB750E Rechargeable 2000mAh Li-Ion battery
- CBH750 Spring loaded belt clip
- CATXX Antenna
- User guide CD

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Optional Accessories

Battery & Charger Options

CNB750E	Spare 2000mAh Lithium-Ion battery pack with rear clip
CSAHT	1-way intelligent rapid charger, 100-240v
CSBHT	6-way intelligent, rapid charger, 100-240v
CCAHT-230	1-way trickle charger with 230V mains adapter
CCAHT-110	1-way trickle charger with 110V mains adapter
CCAHT-12	1-way trickle charger with cigar lighter lead, 12V DC operation
CBE750	Dummy battery and regulator with cigar lighter plug

Carry Options

CFC750	HT 2.0 series soft leatherette case finished in black with carry strap
CLC752	HT7X2 heavy duty black leather case with strap & belt loop
CLC753	HT7X3 & HT7X5 heavy duty black leather case with strap & belt loop
CLC756	HT7X6 heavy duty black leather case with strap & belt loop
CBH750	Spare spring loaded belt clip

Audio Accessory Options

CMP1/750	Compact medium duty speaker microphone with earpiece jack
CMP750	Heavy duty submersible speaker microphone
EHP9	D-shaped earpiece (plugs into CMP1/750 or CMP750 above)
EA12/750	D-shaped earpiece with in-line PTT/microphone & VOX*
EA15/750	Earpiece microphone with transparent acoustic tube & VOX*
EA19/750	D-shaped earpiece with boom microphone and in-line PTT & VOX*
EHP750	D-Shaped earpiece (connects directly to radio)
EPT40/750	Bone conductive earpiece microphone with PTT
CXR5/750	Bone conductive skull microphone with in-line PTT
CXR16/750	D-shaped earpiece and throat microphone with in-line PTT

Optional Accessories cont...

CHP1/750	Light weight single earpiece headset with in-line PTT & VOX*
CHP750HS	Single earpiece ear defender headset with boom mic and in line PTT for hard hat & VOX*
CHP750HD	Double earpiece defender headset with boom mic and in line PTT for hard hat & VOX*
CHP750D	Double earpiece headband defender headset with boom mic and in line PTT & VOX*
CHP750BT	Bluetooth double earpiece headband defender headset with boom mic and ear cup PTT

*VOX = Voice Operated Transmit (hands free operation)

Bluetooth option board in radio is required to use Bluetooth audio accessories.

Antenna Options

CXW640	Antenna adapter for external aerial	CAT10S-78	78MHz compressed antenna
CAT20	Helical antenna VHF	CAT10S-85	85MHz compressed antenna
CAT80	Whip antenna UHF	CAT10S	66-88MHz uncut compressed antenna
CAT20S	Stubby antenna VHF		
CAT80S	Stubby antenna UHF		

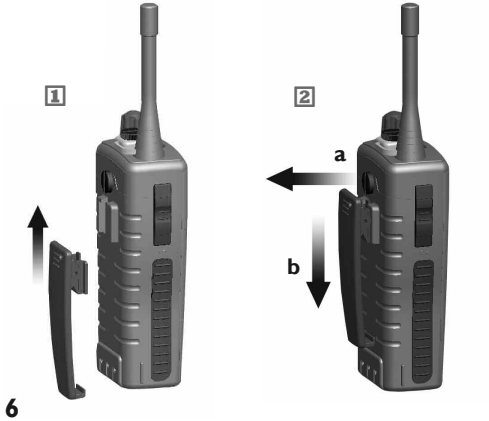
For complete up to date list of optional accessories visit www.entel.co.uk

Preparing Your Radio For Use

Attaching / Removing the Battery Pack

1. To attach, locate the pegs on the bottom of the battery and place into the slots on the radio. Then press the top of the battery against the radio. Secure battery by tightening the screw clockwise by hand. (Do not over tighten)
2. To remove, unscrew the locking screw anticlockwise and pull the battery away from the top of the radio.

Attaching / Removing the Belt Clip



1. To attach, press the clip into the slot on the back of the battery and slide up until you hear a "click".
2. To remove, pull the tab (**a**) towards the belt clip. Then slide the belt clip downwards (**b**).

Preparing Your Radio For Use cont...

Attaching / Removing the Aerial

1. To attach, carefully align the aerial with the socket. Screw in the aerial clockwise (taking care not to cross the thread) until it is seated firmly against the top of the radio.
2. To remove, unscrew the aerial anti-clockwise.

Attaching / Removing Audio Accessories

1. To attach, remove the accessory cover by unscrewing the locking screw anti-clockwise (leave cover attached or store in a safe place). Attach accessory plug by locating over the socket. Carefully tighten the locking screw clockwise until finger tight (do not tighten with a screwdriver etc).
2. To remove, unscrew the locking screw by hand in an anti-clockwise direction (carefully use a coin or screwdriver if too tight). Ensure you re-fit the accessory cover so as to protect the socket.

Charging Your Radio

Several charger options are available. Please refer to your charger user guide.

Turning your radio on

Turn your radio on by pressing the on / off button on the front of the radio. The radio will bleep and the LED will illuminate constant yellow for approximately 4 seconds, followed by a second "warble" (if not disabled by the Dealer when programmed).

HT712T/722T/782T(TU)

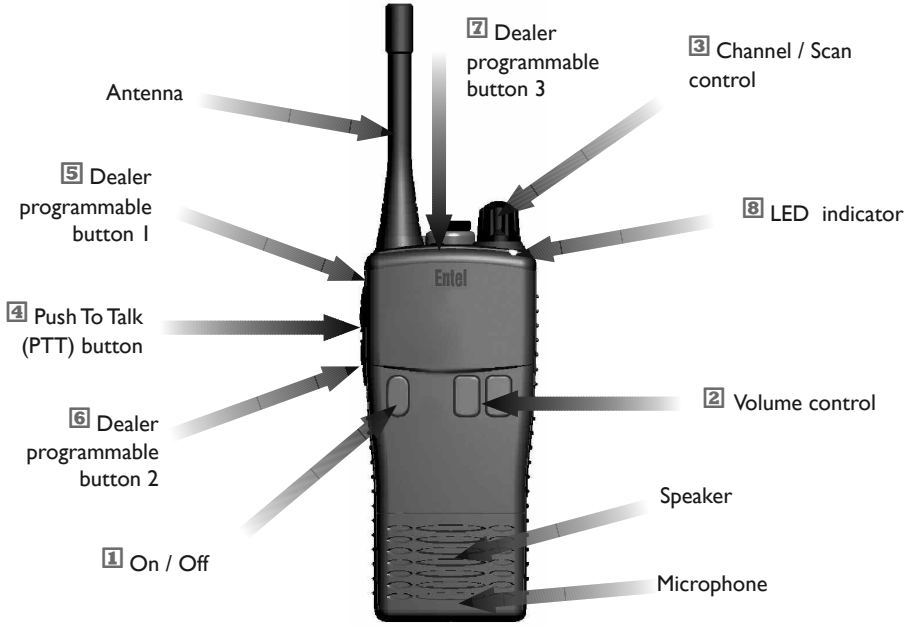
Standard Features:

- 16 position call select control
- Full transmit power output (5 Watts VHF, 4 Watts UHF)
- Dynamic power output (automatically adjusts for optimum performance)
- CTCSS & DCS (analogue & digital squelch) with squelch tail elimination (removes the 'shh' noise)
- Exceptionally loud and clear audio
- Robust design, exceeds MILSTD-810C/D/E/F
- Environmentally protected to IP68
- 2000mAH Lithium-Ion battery for superior operational time
- Low battery alert indicates when the battery needs recharging via a warning bleep and a slowly flashing red LED

Dealer programmable features:

- Emergency and lone worker protection calls
- Man down alarm (option)
- VOX for hands free operation
- High/Low transmit power
- Panic (personal attack) button causes high pitch, high volume, siren tone to be emitted from the radio's speaker
- Key lock button
- Prefixed minimum volume level and fixed bleep level
- Conventional channel mode (allows communication away from a base station
- Voice scrambler with 1 code per channel (option)

Controls & Indicators



1. On / Off button. Press to turn radio on, press and hold to turn off.
2. Press up / down buttons to increase / reduce volume.
3. Channel / Scan control. Rotate to select the desired channel or scan setting.
4. Push To Talk (PTT) button. Press to speak and release to listen.
5. Dealer programmable button 1 (ask your dealer for more information).
6. Dealer programmable button 2 (ask your dealer for more information).
7. Dealer programmable button 3 (ask your dealer for more information).
8. LED indicator.
   - RED steady = Transmitting
   - RED slow flash = Battery needs re-charging
   - RED medium flash = Radio is out of service
   - GREEN steady = Receiving
   - GREEN medium flash = Radio is in service

HT705/715/725/785(U)

All the features of the HT712T/722T/782T(U) (see page 8) plus the following features:

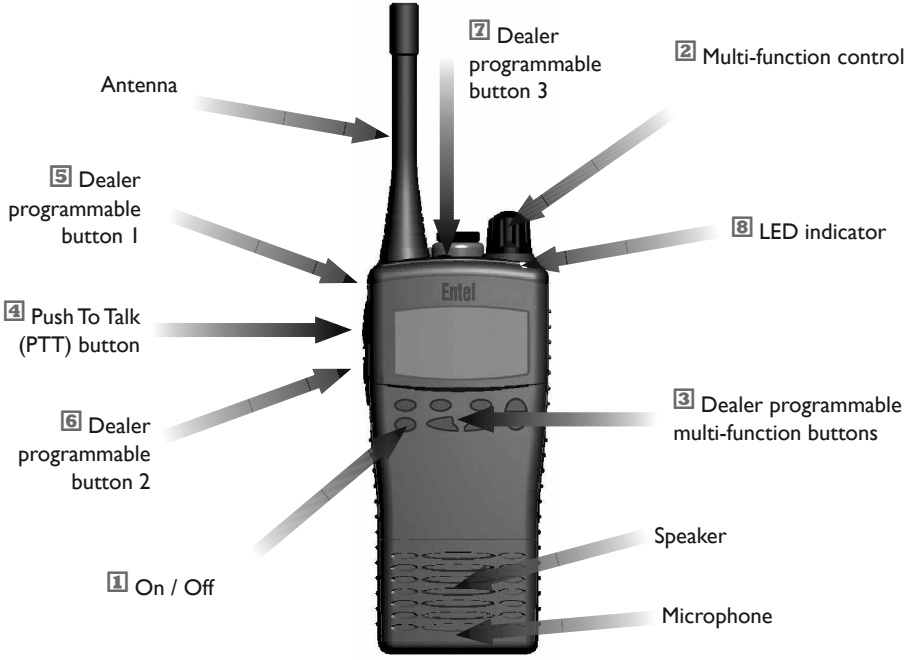
Standard Features:

- LCD screen
- Voice scrambler with up to 4 codes per channel
- Intuitive menus (like a mobile phone)
- Info button (user guide built-in to radio)
- Signal strength indicator
- Battery level indicator

Dealer programmable features:

- Speed dial
- Who's calling (caller ID)
- 255 user contact list (just like a mobile phone)
- Display missed, received & dialled numbers
- Multiple ring / alert tones
- Send / Receive status, text and email messages

Controls & Indicators



1. On/Off button. Press to turn radio on, press and hold to turn off.
2. Multi-function dealer programmable control (ask your dealer for more information).
3. Dealer programmable multi function buttons.
4. Push To Talk button. Press to speak and release to listen.
5. Dealer programmable button 1 (ask your dealer for more information).
6. Dealer programmable button 2 (ask your dealer for more information).
7. Dealer programmable button 3 (ask your dealer for more information).
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   - GREEN medium flash = Radio is in service

LCD Indicators

- Message Received
- Missed Call
- Key Bleeps Off
- Silent Profile
- Keypad Locked
- Man Down
- Lone Worker
- Bluetooth device connected
- Accessory Connected
- VOX Enabled
- Scramble Enabled
- Do Not Disturb
- Whisper Mode
- Battery State
- Receive strength / TX Output Low / Mid / High

- Call Diverted
- Speaker muted
- Speaker unmuted

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HT716T/726T/786T(U)

All the features of the HT715T/725T/785T(U) (see page 10) plus the following features:

Standard Features:

- Keypad
- Send free format text messages

Dealer programmable features:

- Edit contact list
- Free dial radio contacts
- Free dial telephone numbers
- Free dial DTMF numbers

Controls & Indicators

1. On / Off button. Press to turn radio on, press and hold to turn off.
2. Multi-function dealer programmable control (ask your dealer for more information).
3. Dealer programmable / function buttons.
4. Push To Talk (PTT) button. Press to speak and release to listen.
5. Dealer programmable button 1 (ask your dealer for more information).
6. Dealer programmable button 2 (ask your dealer for more information).
7. Dealer programmable button 3 (ask your dealer for more information).
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LCD Indicators

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- Do Not Disturb
- Whisper Mode
- Battery State
- Receive strength / TX Output Low / Mid / High

- Call Diverted
- Speaker muted
- Speaker unmuted

‘the professional’s choice’

<Intended Country Of Use>

☐ AT	☐ FR	☐ LT	☐ SK
☐ BE	☐ DE	☐ LU	☐ SI
☐ BG	☐ GR	☐ MT	☐ ES
☐ CY	☐ HU	☐ NL	☐ SE
☐ CZ	☐ IS	☐ NO	☐ CH
☐ DK	☐ IE	☐ PL	☐ UK
☐ EE	☐ IT	☐ PT	
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CE 0891 ⓘ

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